

# Bill of Materials

TI DESIGNS

TIDA-00465

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	1	PCB1		Printed Circuit Board	Any	PR2207			
2	4	C1, C3, C7, C8	0.01uF	CAP, CERM, 0.01uF, 100V, +/-10%,	TDK	C1608X7R2A103K		0603	
3	1	C2	0.01uF	CAP, CERM, 0.01uF, 100V, +/-10%, X7R, 0603	AVX	06031C103KAT2A		0603	
4	1	C4	22uF	CAP, AL, 22 µF, 80 V, +/- 20%, 1.3 ohm, SMD	Panasonic	EEE-FK1K220P		SMT Radial F	
5	1	C5	2.2uF	CAP, CERM, 2.2uF, 100V, +/-10%, X7R, 1210	MuRata	GRM32ER72A225KA35L		1210	
6	1	C6	10uF	CAP, CERM, 10uF, 10V, +/-10%, X5R, 0805	Kemet	C0805C106K8PACTU	885012107010 (Würth Elektronik)	0805	
7	1	C9	1000pF	CAP, CERM, 1000pF, 2000V, +/-	AVX	1812GC102KA1		1812	
8	2	C10, C12	0.1uF	CAP, CERM, 0.1uF, 100V, +/-10%,	TDK	C2012X7R2A104K		0805	
9	5	C11, C13, C14, C15, C16	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	AVX	06035C104KAT2A	885012206095 (Würth Elektronik)	0603	
10	2	D1, D2	58V	Diode, TVS, Uni, 58V, 600W, SMB	Diodes Inc.	SMBJ58A-13-F		SMB	
11	1	D3	22V	Diode, Zener, 22V, 550mW, SMB	ON Semiconductor	1SMB5933BT3G		SMB	
12	1	D4	Blue	LED, Blue, SMD	OSRAM	LB Q39G-L2N2-35-1	150060BS75000 (Würth Elektronik)	BLUE 0603 LED	
13	1	F1		Fuse, 1.5A, 63V, SMD	Bel Fuse	C1S 1.5		1206	
14	1	J1		Terminal Block, 6A, 3.5mm Pitch, 2 Pos, TH	On-Shore Technology	ED555/2DS	691103110002 (Würth Elektronik)	7.0x8.2x6.5mm	
15	1	J2		RJ-45, Vertical, TH	Stewart Connector	SS-7188V-A-NF	615008138021 (Würth Elektronik)	RJ-45 Jack, 8Pos Right Angle	
16	1	J3		RJ-45, Right Angle, No LED, tab up	AMP	1-406541-1	615008140621 (Würth Elektronik)	16.26x14.54x15.75	
17	1	L1	uH	Coupled inductor, 5A, 0.01 ohm, SMD	TDK	ACM7060-301-2PL-TL		6x3.5x7 mm	
18	1	Q1	100V	MOSFET, N-CH, 100V, 3.3A, 3.3x1x3.3mm	Fairchild Semiconductor	FDMC3612		3.3x1x3.3mm	
19	4	R1, R5, R8, R9	75.0	RES, 75.0 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060375R0FKEA		0603	
20	1	R2	0	RES, 0, 5%, 0.75 W, 2010	Vishay-Dale	CRCW20100000Z0EF		2010	
21	1	R3	825k	RES, 825k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603825KFKEA		0603	
22	1	R4	182k	RES, 182k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603182KFKEA		0603	
23	1	R6	32.4k	RES, 32.4 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060332K4FKEA		0603	
24	1	R7	100k	RES, 100k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603100KFKEA		0603	
25	1	R10	7.50k	RES, 7.50k ohm, 1%, 0.25W, 1206	Vishay-Dale	CRCW12067K50FKEA		1206	

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26	1	R11	47	RES, 47 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060347R0JNEA		0603	
27	1	R12	22.1	RES, 22.1 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060322R1FKEA		0603	
28	2	R13, R14	0.51	RES, 0.51 ohm, 1%, 0.25W, 0805	Bourns	CRM0805-FX-R510ELF		0805	
29	1	T1	350uH	TRANSFORMER/CMC MOD, GIGABIT POE+, SMT	Pulse Engineering	H6096NL	749022015 (Wurth Elektronik)	12.2X6.6X18.16 mm	
30	1	TP1	Red	Test Point, Multipurpose, Red, TH	Keystone	5010		Red Multipurpose Testpoint	
31	1	TP2	Yellow	Test Point, Multipurpose, Yellow, TH	Keystone	5014		Yellow Multipurpose Testpoint	
32	1	TP3	Black	Test Point, Multipurpose, Black, TH	Keystone	5011		Black Multipurpose Testpoint	
33	1	U1		Single Output LDO, 50 mA, Adjustable 1.175 to 90 V Output, 7 to 100 V Input, 8-pin MSOP (DGN), 40 to 125 degC, Green (RoHS & no Sb/Pb)	Texas Instruments	TPS7A4001DGNR		DGN0008B	
34	1	U2		QUAD IEEE 802.3at POWER-OVER-ETHERNET PSE CONTROLLER, PW0028A	Texas Instruments	TPS23861PW		PW0028A	

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